DECLARATION FOR PATENT APPLICATION

As a below named inventor, I declare that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

19 HUMAN SECRETED PROTEINS

the specification of which was filed on April 11, 2001 as Application Serial No 09/832,129.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application	(5).		Priority Yes	<u>Claimed</u> No
(Number)	(Country)	(Day/Month/Year Filed)	_	•
I hereby claim the benefit listed below.	under 35 U.S.C.	§ 119(e) of any United State	es provisional	application(s
<u> </u>		§ 119(e) of any United State	es provisional	application(s
listed below.	Novembe		es provisional	application(s
60/163,085	Novembe) (Filing	er 2, 1999	es provisional	application(s

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/US00/28664	October 17, 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

Serial No: 09/832,129

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Joseph Kenny (Reg. No. 43,710), Jonathan L. Klein (Reg. No. 41,119), Michele Wales (Reg. No. 43,975) and Mark J. Hyman (Reg. No. 46,789) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor:	Michele Fiscella		
Inventor's signature: MA FUL	4	Date: 1-1 Citizenship:	<u>٥-٥ ٦</u>
Residence: 6308 Redwing Road, Bethesd	la, MD 20817	Citizenship:	IT
Post Office Address: same as above			
Full name of additional joint inventor:	Ping Wei		
Inventor's signature: h22		Date: Citizenship:	0-02
Residence: 19100 Old Baltimore Road, Broo	keville, MD 20833	_ Citizenship:	<u>CN</u>
Post Office Address: same as above			
Full name of additional joint inventor:	David W. LaFleur		
Inventor's signature:	Jund. Wa	Date:ı _ Citizenship:	1002
Residence: 3142 Quesada Street, N.W., Was	hington, DC 20015	_ Citizenship:	' <u>US</u>
Post Office Address: same as above			
Full name of additional joint inventor:	Henrik S. Olsen		
Inventor's signature: Hand Ols	×	Date:	110/02
Residence: 182 Kendrick Place, #24, Gaither	rsburg, MD 20878	Citizenship:	DK
Post Office Address: same as above			
		•	
Full name of additional joint inventor:	Kevin P. Baker		
Inventor's signature:	mv.	Date:/	10/02
Residence: 14006 Indian Run Drive; Dar	nestown, MD 20878	_ Citizenship:	<u>GB</u>
Post Office Address: same as above			

Full name of additional joint inventor: R	einhard Ebner
	Date:
Inventor's signature:	
Residence: 9906 Shelburne Terrace, #316, Gait	lersburg, MD 20878 Citizenship.
Post Office Address: same as above	
Full name of additional joint inventor:	George A. Komatsoulis
Inventor's signature:	mase Date: 1/1/02
Residence: 9518 Garwood Street, Silver Spring	MD 20901 Citizenship: US
Post Office Address: same as above	
Full name of additional joint inventor: ,	raig A. Rosen
	Date: ///5/07
Inventor's signature:	
Residence: 22400 Rolling Hills Road, Layto	onsville, MD 20882 Citizenship. 7 05
Post Office Address: same as above	
Full name of additional joint inventor:	teven M. Ruben
H. 1	The state of the s
Inventor's signature:	Date: 1/10/02
Residence: 18528 Heritage Hills Drive, Olney,	MD 20832 Citizenship: US
Post Office Address: same as above	
Full name of additional joint inventor:	Roxanne D. Duan
Inventor's signature:	Date:
Residence: 5515 Northfield Road, Bethesda	
Post Office Address: same as above	
Fost Office Address. Same as above	
_	
Full name of additional joint inventor:	Paul E. Young
Inventor's signature:	Date:
Residence: 122 Beckwith Street, Gaithersburg,	MD 20878 Citizenship: US
Post Office Address: same as above	
TO 10 11/42 12	Vimborly A. Florence
Full name of additional joint inventor:	Kimberly A. Florence
	Por succe Date: 1/16/02
Inventor's signature: 10805 Asla dia Assart Registre	7-7-5
Residence: 12805 Atlantic Avenue, Rocky	lle, MD 20851 Citizenship: US
Post Office Address: same as above	

Full name of additional	joint inventor:	Paul A. Moore		
Inventor's signature:	1	Paul A Moon	Date:	1/10/02
Residence: 19005 Leath	erbark Drive, Gern	nantown, MD 20874	Citizenship:	GB
Post Office Address:	same as above			
Full name of additional	joint inventor:	Charles E. Birse		
Inventor's signature:	Chi B	se.	Date:	802
Residence: 13822 Sado		th Potomac, MD 20878	Citizenship:	<u>GB</u>
Post Office Address:	same as above			
Full name of additional	joint inventor:	Jian Ni		
Inventor's signature:	C.H.DJ.D.	almilla N#S 20%52	Date:/ Citizenship:	(18/6~ CN
Residence: 5502 M Post Office Address:	same as above	ckville, MD 20853	Citizensinp.	CN
Full name of additional	joint inventor:	Daniel R. Soppet		
Inventor's signature:		·	Date:	
Residence: 15050 S	tillfield Place, Cen	treville, VA 22020	Citizenship:	US
Post Office Address:	same as above			
	. •			
Full name of additional	joint inventor:	Yanggu Shi		
Inventor's signature: Residence: 437 West 20878	Side Drive, Apt.	102, Gaithersburg, MD	Date: // Citizenship:	(8/02 CN
Post Office Address:	same as above		-	

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19 HUMAN SECRETED PROTEINS

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Prior Foreign Application(s):			Priority Cla Yes	imed No
±1				
(Number)	(Country)	(Day/Month/Year Filed)		

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

60/163,085	November 2, 1999
(Application Serial No.)	(Filing Date)
60/172,411	December 17, 1999
(Application Serial No.)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(b) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

Serial No: 09/832,129

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Joseph Kenny (Reg. No. 43,710), Jonathan L. Klein (Reg. No. 41,119), Michele Wales (Reg. No. 43,975) and Mark J. Hyman (Reg. No. 46,789) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Full name of first joint inventor:	Michele Fiscella		
		Date:	
Inventor's signature:	-do MD 20817	Citizenship:	IT
Residence: 6308 Redwing Road, Bethe	sda, IVID 20017		
Post Office Address: same as above			
Full name of additional joint inventor:	Ping Wei		
· · · · · · · · · · · · · · · · · · ·		Date:	
Inventor's signature: Residence: 19100 Old Baltimore Road, Broad,	ookeville, MD 20833	Citizenship:	CN
Post Office Address: same as above			
Post Office Address: same as above			•
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Full name of additional joint inventor:	David W. LaFleur		
1. Hill Hame of Labrace and		_	
Inventor's signature:		Date:	7.70
Residence: 3142 Quesada Street, N.W., W	ashington, DC 20015	_ Citizenship:	US
Post Office Address: same as above			<u>.</u> .
	į		
	Henrik S. Olsen		
Full name of additional joint inventor:	Henrik 3. Olsen		
		Date:	
Inventor's signature: Residence: 182 Kendrick Place, #24, Gait	hershurg MD 20878	Citizenship:	DK
Residence: 182 Kendrick Flace, #24, Gair. Post Office Address: same as above	Hersourg, 1.22		
Post Office Address: same as above			
Full name of additional joint inventor:	Kevin P. Baker		
Full Rame of additional joint and		_	
Inventor's signature:		Date:	
Residence: 14006 Indian Run Drive, I	Darnestown, MD 20878	Citizenship:	GB
Post Office Address: same as above			

Full name of additional jo	oint inventor://	Reinhard Ebner		
	4	9/.	- 2/0	-/12
Inventor's signature:		who-	_ Date:	100
Residence: 9906 Shelbun	ne Теттасе, #316, С	Saithersburg, MD 20878	Citizenship:	_DE_
Post Office Address:	same as above			
		O		
Full name of additional jo	oint inventor:	George A. Komatsou	118	
*			Date:	
Inventor's signature:	d Ctract Cilvor Car	ing MD 20901	Citizenship:	US
Residence: 9518 Garwood Post Office Address:	same as above	ing, MD 20001	_ Chileman.	
Post Office Address.	Same as above			
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Full name of additional jo	int inventor:	Craig A. Rosen		
Tan hame of additional jo				
Inventor's signature:			Date:	
Residence: 22400 Rol	ling Hills Road, La	aytonsville, MD 20882	Citizenship:	_US_
Post Office Address:	same as above			
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Full name of additional jo	int inventor:	Steven M. Ruben		
		,	_	
Inventor's signature:			Date:	7.70
Residence: 18528 Heritage		ey, MD 20832	Citizenship:	<u>US</u>
Post Office Address:	same as above			
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m n		Roxanne D. Duan		
Full name of additional jo	int inventor:	Ruxanne D. Duan		
Inventor's signature:			Date:	
Residence: 5515 Nort	hfield Road Bethe	sda MD 20817	Citizenship:	US
Post Office Address:	same as above	344, 1.13 2001.		
Tost Office Address.	barre as acc / c			
Full name of additional jo	int inventor:	Paul E. Young		
•		·		
Inventor's signature:			Date:	
Residence: 122 Beckwith	Street, Gaithersbu	rg, MD 20878	Citizenship:	US
Post Office Address:	same as above			
·				
Full name of additional jo	int inventor:	Kimberly A. Florence		
			Date	
Inventor's signature:			Date: Citizenship:	US
	antic Avenue, Roc	KVIIIe, IVID 20831	Citizensinp.	
Post Office Address:	same as above			

Full name of additional joint inventor:	Paul A. Moore		
-		Data	
Inventor's signature:		Date:	
Residence: 19005 Leatherbark Drive, Gern	nantown, MD 20874	Citizenship:	GB
Post Office Address: same as above			
The state of the s	Charles E. Birse		
Full name of additional joint inventor:	Charles E. Dirse		
Inventor's signature:		Date:	
Residence: 13822 Saddleview Drive, Nort	h Potomac, MD 20878	Citizenship:	GB
Post Office Address: same as above			
· .			
	Tine Ni		
Full name of additional joint inventor:	Jian Ni		
Inventor's signature:		Date:	
Residence: 5502 Manorfield Road, Roc	kville, MD 20853	Citizenship:	CN
Post Office Address: same as above			
		· ·	
Full name of additional joint inventor:	Daniel R. Soppet		
Inventor's signature:	Resorret	_ Date: 3/	5/02
Residence: 15050 Stillfield Place, Cent	reville. VA-22020	Citizenship:	US
Post Office Address: same as above		,	
Full name of additional joint inventor:	Yanggu Shi		
•		Date:	
Inventor's signature:	100 C 11 1 - 100		CNI
Residence: 437 West Side Drive, Apt. 20878	102, Gaithersburg, MD	Citizenship:	CN
Post Office Address: same as above	į.		

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Prior Foreign Applic	eation(s):		Priority (Claimed
			Yes	No
(Number)	(Country)	(Day/Month/Year Filed)		

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

November 2, 1999
(Filing Date)
December 17, 1999
(Filing Date)

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PCT/US00/28664	October 17, 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Joseph Kenny (Reg. No. 43,710), Jonathan L. Klein (Reg. No. 41,119), Michele Wales (Reg. No. 43,975) and Mark J. Hyman (Reg. No. 46,789) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Full name of first joint inventor:	Michele Fiscella		
Inventor's signature:		Date:	
Residence: 6308 Redwing Road, Betheso	da, MD 20817	Citizenship:	IT
Post Office Address: same as above			***************************************
Full name of additional joint inventor:	Ping Wei	distriction of the second seco	
Inventor's signature:		Date:	
Residence: 19100 Old Baltimore Road, Broo	okeville, MD 20833	Citizenship:	CN
Post Office Address: same as above			
Full name of additional joint inventor:	David W. LaFleur		
Inventor's signature:		Date:	
Residence: 3142 Quesada Street, N.W., Was	hington, DC 20015	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	Henrik S. Olsen		·
Inventor's signature:		Date:	
Residence: 182 Kendrick Place, #24, Gaither	rsburg, MD 20878	Citizenship:	DK
Post Office Address: same as above			
Full name of additional joint inventor:	Kevin P. Baker		
Inventor's signature:		Date:	
Residence: 14006 Indian Run Drive, Dar	nestown, MD 20878	Citizenship:	GB
Post Office Address: same as above			

Full name of additional	joint inventor:	Reinhard Ebner		
Inventor's signature:			Date:	
Residence: 9906 Shelbu	me Terrace, #316,	Gaithersburg, MD 20878	Citizenship:	DE
Post Office Address:	same as above		•	
Full name of additional	joint inventor:	George A. Komatsou	lis	
Inventor's signature:			Date:	
Residence: 9518 Garwo	od Street, Silver Sp	ring, MD 20901	Citizenship:	US
Post Office Address:	same as above			
Full name of additional	joint inventor:	Craig A. Rosen		
Inventor's signature:			Date:	
Residence: 22400 R	olling Hills Road, L	Laytonsville, MD 20882	Citizenship:	US
Post Office Address:	same as above			
Inventor's signature: Residence: 18528 Herita Post Office Address:		ney, MD 20832	Date: Citizenship:	US
Post Office Address:	same as above			
Full name of additional	joint inventor:	Roxanne D. Duan		
Inventor's signature:	Roxan	ne Duan		9/02
Residence: 5515 No	rthfield Road, Beth	esda, MD 20817	Citizenship:/	' US
Post Office Address:	same as above			
Full name of additional	joint inventor:	Paul E. Young		
		<u> </u>	_	
Inventor's signature:		2.50	Date:	
Residence: 122 Beckwit		urg, MD 20878	Citizenship:	<u>US</u>
Post Office Address:	same as above			
Full name of additional	joint inventor:	Kimberly A. Florence		
Inventor's signature:			Date:	
_	tlantic Avenue, Roc	kville, MD 20851	Citizenship:	US
Post Office Address:	same as above		•	

Serial No: 09/832,129

Full name of additional joint inventor:	Paul A. Moore		
Inventor's signature:		Date:	
Residence: 19005 Leatherbark Drive, Gen	mantown, MD 20874	Citizenship:	GB
Post Office Address: same as above			
Full name of additional joint inventor:	Charles E. Birse		
Inventor's signature:		Date:	
Residence: 13822 Saddleview Drive, Nor	th Potomac MD 20878	Citizenship:	GB
Post Office Address: same as above		_	
1 ost Office / Iddiess. <u>Same as above</u>			
	•		
Full name of additional joint inventor:	Jian Ni		
Inventor's signature:		Date:	
Residence: 5502 Manorfield Road, Ro	ockville, MD 20853	Citizenship:	CN
Post Office Address: same as above		•	
	D 11D C 1		
Full name of additional joint inventor:	Daniel R. Soppet		
Inventor's signature:		Date:	
Residence: 15050 Stillfield Place, Cen	itreville, VA 22020	Citizenship:	US
Post Office Address: same as above			
Full name of additional joint inventor:	Yanggu Shi	-	
run name of auditional joint inventor.	1 anggu Shi		
Inventor's signature:		Date:	
Residence: 437 West Side Drive, Apt.	. 102, Gaithersburg, MD	Citizenship:	CN
20878	SERVICE SANDERS SANDERS	_	
Post Office Address: same as above			

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3 11 (7		•	Priority (····
			Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	-	
I hereby claim the benefit und listed below.	der 35 U.S.C. §	119(e) of any United State	s provisional a	application(s)
60/163,085	November	2, 1999		
(Application Serial No.)	(Filing	Date)		
60/172,411	December	17, 1999		

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(Filing Date)

PCT/US00/28664	October 17, 2000	Pending
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

Serial No: 09/832,129

Prior Foreign Application(s):

(Application Serial No.)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Joseph Kenny (Reg. No. 43,710), Jonathan L. Klein (Reg. No. 41,119), Michele Wales (Reg. No. 43,975) and Mark J. Hyman (Reg. No. 46,789) of Human Genome Sciences, Inc. 9410 Key West Avenue, Rockville, Maryland, 20850.

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Full name of first joint inventor:	lichele Fiscella
Inventor's signature:	Date:
Residence: 6308 Redwing Road, Bethesda,	
Post Office Address: same as above	*
Full name of additional joint inventor:	ing Wei
Inventor's signature:	Date:
Residence: 19100 Old Baltimore Road, Brooke	ville, MD 20833 Citizenship: CN
Post Office Address: same as above	
Full name of additional joint inventor:	avid W. LaFleur
Inventor's signature:	Date:
Residence: 3142 Quesada Street, N.W., Washin	gton, DC 20015 Citizenship: US
Post Office Address: same as above	
Eull name of additional joint inventors	annik S. Olaan
Full name of additional joint inventor:	enrik S. Olsen
Inventor's signature:	Date:
Residence: 182 Kendrick Place, #24, Gaithersbi	rg, MD 20878 Citizenship: DK
Post Office Address: same as above	
Full name of additional joint inventor: <u>K</u>	evin P. Baker
Inventor's signature:	Date:
Residence: 14006 Indian Run Drive, Darnes	town, MD 20878 Citizenship: GB
Post Office Address: same as above	

Full name of additional joint inventor:	Reinhard Ebner		
•		~ .	
Inventor's signature:	3.40.0000	Date:	
Residence: 9906 Shelburne Terrace, #316, Ga	aithersburg, MD 20878	Citizenship:	DE
Post Office Address: same as above			
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Inventor's signature:		Date:	
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Post Office Address: same as above	15, 110 20701	_ Cruzensinp.	
Same as asset		·	
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Full name of additional joint inventor:	Craig A. Rosen		
	 -		
Inventor's signature:		Date:	
Residence: 22400 Rolling Hills Road, Lay	ytonsville, MD 20882	Citizenship:	US
Post Office Address: same as above			
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Full name of additional joint inventor:	Steven M. Ruben		
		.	
Inventor's signature:	1.772.00000	Date:	
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Post Office Address: same as above			
•			
Full name of additional joint inventor:	Roxanne D. Duan		
The state of additional joint suventor.	Roxanne D. Duan		
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Residence: 5515 Northfield Road, Bethese	da. MD 20817	Citizenship:	US
Post Office Address: same as above		O. C.	
Full name of additional joint inventor:	Paul E. Young		
Mah.		, ,	. /
Inventor's signature:		Date: Z/26/ Citizenship:	102
Residence: 122 Beckwith Street, Gaithersburg	g, MD 20878	Citizenship:	US
Post Office Address: same as above			
·			
Full name of additional joint inventor:	Kimberly A. Florence		
inventor's signature:		Date:	
Residence: 12805 Atlantic Avenue, Rocky	ville, MD 20851	Citizenship:	US
Post Office Address: same as above			

Full name of additional jo	int inventor:	Paul A. Moore		
Inventor's signature:			Data	
_	houle Duise Com	20974	Date:	<u> </u>
Residence: 19005 Leather		lantown, MD 20874	Citizenship:	GB
Post Office Address:	same as above			
·				
Full name of additional jo	int inventor:	Charles E. Birse		•
Inventor's signature:			Date:	
Residence: 13822 Saddle	view Drive, North	Potomac, MD 20878	Citizenship:	GB
Post Office Address:	same as above		•	
•				
Full name of additional jo	int inventor:	Jian Ni		
Inventor's signature:			Date:	
_	orfield Road Roc	kville, MD 20853	Citizenship:	CN
Post Office Address:	same as above			
_				
Full name of additional jo	int inventor:	Daniel R. Soppet		
Inventor's signature:			Date:	
Residence: 15050 Stil	Ifield Place, Centr	eville, VA 22020	Citizenship:	US
Post Office Address:	same as above			
•				
Full name of additional jo	int inventor:	Yanggu Shi		
Inventor's signature:			Date:	
_	de Drive, Apt.	102, Gaithersburg, MD	Citizenship:	CN
20878	, 1		1	
Post Office Address:	same as above			

Serial No: 09/832,129



MARCH 26, 2003

JANET M. MANTINEAU HUMAN GENOME SCIENCES, INC. 9410 KEY WEST AVENUE ATTY. DKT.: PZ045P1 ROCKVILLE, MD 20850 Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231

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2003 W 5A *10239

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

PTAS

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DOC DATE: 01/10/2002

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DOC DATE: 01/10/2002

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DOC DATE: 01/11/2002

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DOC DATE: 01/10/2002

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DOC DATE: 01/10/2002

ASSIGNOR:

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DOC DATE: 03/05/2002

ASSIGNOR:

KOMATSOULIS, GEORGE A.

DOC DATE: 01/11/2002

013510/0162 PAGE 2

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RUBEN, STEVEN M. DOC DATE: 01/10/2002

ASSIGNOR:

DUAN, D. ROXANNE DOC DATE: 01/09/2002

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YOUNG, PAUL E. DOC DATE: 02/26/2002

ASSIGNOR:

FLORENCE, KIMBERLY A. DOC DATE: 01/16/2002

ASSIGNOR:

MOORE, PAUL A. DOC DATE: 01/10/2002

ASSIGNOR:

BIRSE, CHARLES E. DOC DATE: 01/08/2002

ASSIGNOR:

NI, JIAN DOC DATE: 01/10/2002

ASSIGNOR:

SOPPEI, DANIEL R. DOC DATE: 03/05/2002

ASSIGNOR:

SHI, YANGGU DOC DATE: 01/08/2002

ASSIGNEE:

HUMAN GENOME SCIENCES, INC. 9410 KEY WEST AVENUE ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 09832129 FILING DATE: 04/11/2001

PATENT NUMBER: ISSUE DATE:

THERESA FREDERICK, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Name of Person Signing

Date

14

03-25-2003 US DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office (Rev. UT UI) OMB No 0551-0027 (exp 5/31/2002) 102395632 To the Honoraphe Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof Name and address of receiving party(ies) 1. Name of conveying pany(les): Michele Fiscella (January 10, 2002), Ping Wei (January Name: Human Genome Sciences, Inc. 10, 2002), David W. LaFleur (January 11, 2002), Henrik internal Address: S. Olsen (January 10, 2002). Kevin P. Baker (January 10, 2002). Street Address: Additional traine(s) of conveying party(les) 9410 Key West Avenue x Yes No ಪುಷರಾವ? 3. Nature of Conveyance: x Assignment Merger Security Agreement Change of Name Rockville Cay: Other State: MD Zip: 20850 Additional name(s) & Yes x No Execution Date: 1 see Box 1, conveying parties address(es) anached: 4. Application number(s) or patent number(s) If this document is being filed togethar with a new application, the execution date of the new application is: A. Patent Application No.(s): B. Patent No.(s): 09/832,129 x No Additional numbers attached? Yes 5. Name and address of pany to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: Janet M. Martineau HUMAN GENOME SCIENCES, INC. Total fee (37 CFR 3.41) 40.00 Internal Address: Atty. Dkt.: PZ045P1 Enclosed Street Address: 9410 Key West Avenue Authorized to be charged to deposit account Deposit account number 08~3425 State: Zıp: City. (Attach duplicate copy of this page if paying by deposit account) 20850 Rockville MD DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Janet M. Martineau March 22, 2002

Total number of pages including cover sheet, attachments, and documents:

FORTH PTC-1595	CORDATION FO	ORM COVER SHEE inued)	Υ	
Additional Conveying Party(ies				
Reinhard Ebner (March 5, 2002), George Steven M. Ruben (January 10, 2002), D. Kimberly A. Florence (January 16, 2002), Jian Ni (January 10, 2002), Daniel R. Sop	Roxanne Duan (Paul A. Moore (January 9, 2002), P. January 10, 2002), (aul E. Young Charles E. Bil	(February 26, 2002), rse (January 8, 2002),
Additional Assignees (2. Contin	nued):		-	
Assignee Name: Internal Address:			· · · · · · · · · · · · · · · · · · ·	-
Street Address:				
City:	State:		Zip Code:	
Assignee Name:				
Internal Address:				
Street Address:				
City:	State:		Zp Code:	
Assignee Name				
Internal Address.				
Street Address:				
City:	State.		Zip Code:	
Additional Applications and/or F	Patents (4. C	ontinued):		
Additional Patent Application Numbers 4A Continued:		Additional Patent I 4B. Continued.	Numbers	
			:	
IsnoitibbA	numbers attache	eq? Yes	X No	

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the understaned. Michele Fiscella, Ping Wei, David W. LaFleur, Henrik S. Olsen, Kevin P. Baker, Reinhard Ebner, George A. Komatsoulis, Craig A. Rosen, Steven M. Ruben, Roxanne D. Duan, Paul E. Young, Kimberly A. Florence, Paul A. Moore, Charles E. Birse, Jian Ni, Daniel R. Soppet, and Yanggu Shi, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, rule and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention known as 19 HUMAN SECRETED PROTEINS for which application for United States Letters Patent was filed on April 11, 2001, and assigned US Serial No. 09/832,129, m any and all applications thereon, in any and all Patentis) therefore, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (3), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (3), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, unlity models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, trile and interest to be held and emoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said mountion(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or lingation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonal evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned

Each of the Practioners at Customer Number 22195 is hereby granted with full power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordanon of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:_		_Date:	1-13-52
Inventor's Signature	Michele Fiscella 2-2	Date:	1-10-02
TAVELLE & DIGITAL C.	Ping Wei		
Inventor's Signature:_	David W. LaFleur		1 10 02
Inventor's Signature:_	Henrik S. Olsen	_Date:	1 liolo2
Inventor's Signature:_	MM/ Kevin P. Baker	_Date:	1/10/02
Inventor's Signature:_	Reinhard Ebner /	_Date: .	
Inventor's Signature:_	9 1 1 1 1	Date:	1/11/02
Inventor's Signature:	Craig A. Rosen	_Date: _	1/15/07
Inventor's Signature'_	Steven M. Ruben	_Date: .	1/10/02
Invenior's Signamie _	Roxanne D. Duzn	_Date _	
inventor's Signature:_	Paul E. Young	_Date:	
Inventor's Signature:_	Kimberly A. Florence	_Date	1/14/02

Inventor's Signature:	Paul A hurope	Date	1/10/02
	Paul A. Moore		
Inventor's Signature:	Clube Bise	Date: _	1/8/02
	Charles E. Birse	1/2/10	
Inventor's Signature:	10	Date: _	1/0/02
	Jian Ni		
Inventor's Signature:		Date: _	
	Daniel R. Soppet		
Inventor's Signature:	money Mai	Date:	1/8/02
•	Vangor Shi		•

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Michele Fiscella, Ping Wei, David W. LaFleur, Henrik S. Olsen, Kevin P. Baker, Reinhard Ebner, George A. Komatsoulis, Craig A. Rosen, Steven M. Ruben, Roxanne D. Duan, Paul E. Young, Kimberly A. Florence, Paul A. Moore, Charles E. Birse, Jian Ni, Daniel R. Soppet, and Yanggu Shi, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his/her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention known as 19 HUNIAN SECRETED PROTEINS for which application for United States Letters Patent was filed on April 11, 2001, and assigned US Serial No. 09/832,129, in any and all applications thereon, in any and all Patents) therefore, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (commutation, thvisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and inclustrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assigner, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any connutuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient, and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting tale to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or linguing that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representances in obtaining evidence and going forward with such mierterence or lingation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representances that no assignment, grant, morigage, license or other right or agreement affecting the rights and properly herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

Each of the Practitioners at Customer Number 22195 is hereby granted with full power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(5) opposite their signature(5).

Inventor's Signamire:		Date
	Michele Fiscella	
Inventor's Signature:		Date:
	Ping Wei	
Inventor's Signature:	David W. Lafleur	Date:
	David W. Lufleur	
inventor's Signature:		Date:
	Henrik S. Olsen	
	•	•
Inventor's Signature:		Date:
	Kevin P. Baker	
	(1/5()	715124
Inventor's Signanute:	- 97. Ur	20 Date: 3/5/2002
	Reinhard Ebner	
•		
Inventor's Signature:	Ceorge A. Komatsoulis	Date
	George A. Komatsoulis	
_	•	•
Inventor's Signature:	Craig A. Rosen	Date:
	Craig & Rosen	
Inventor's Signature:	Steven M. Ruben	Date:
	Steven M. Ruben	
Inventor's Signature:		
mychiol 3 Signiture:	Ruxanne D. Duan	Date:
Inventor's Signature:		Date:
	Paul E. Young	Date:
Inventor's Signature:		Date:
_	Kimberly A. Florence	

Inventor's Signature:		
inventor's Signiture	Paul A. Moore	
		Date:
Inventor's Signature:	Charles E. Birse	
To a manufa Committeed		
Inventor's Signature:	Jian Ni	
Inventor's Signature:	ulf Sout	Date: 3/5/02
mythor a Digutime.	Daniel R. Sopper	
Inventor's Signature:		Dsre·
TUACHMI 2 DIRMINET	Vanggu Shi	

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned. Michele Fiscella, Ping Wei, David W. LaFleur, Henrik S. Olsen, Kevin P. Baker, Reinhard Ebner, George A. Komatsoulis, Craig A. Rosen, Steven M. Ruben, Roxanne D. Duan, Paul E. Young, Kimberly A. Florence, Paul A. Moore, Charles E. Birse, Jian Ni, Daniel R. Soppet, and Yanggu Shi, hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries,

- (a) in and to the invention known as 19 HUMAN SECRETED PROTEINS for which application for United States Letters Patent was filed on April 11, 2001, and assigned US Serial No. 09/832,129, in any and all applications thereon, in any and all Patent(s) therefore, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor, and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, fitle and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or confirmation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignce, its successors, assigns and representatives.

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IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:		Date	
	Michele Fiscella		
laventor's Signature	Ping Wei	Date:	
Inventor's Signature:	David W. LaFleur	Date:	
Inventor's Signature:	Henrik S. Olsen	Date:	
Inventor's Signature:	Kevin P. Baker	Date:	· .
Inventor's Signature:	Reinhard Ebner	Date:	
Inventor's Signature	George A. Komatsoulis	Date:	
Inventor's Signature:	Craig A. Rosen	Date:	
Inventor's Signature.	Steven M. Ruben	Date:	
Inventor's Signature:	Roxanne D. Duan	1 and Date: 1/7/	<u>د ت -</u>
Inventor's Signature:	Paul E. Young	Date:	
Inventor's Signature:	Kimberly A. Florence	Date·	

Inventor's Signature:		Date	_
0	Paul A. Moore		
Inventor's Signature:		Date:	
	Charles E. Birse		
Inventor's Signature.		Date:	
	Jiza Ni		
Inventor's Signature:		Daīc	
•	Daniel R. Soppet		
Inventor's Signature		Date.	
	Yanggu Shi		

ASSIGNMENT

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Inventor's Signature:		Date:	
	Michele Fiscella		
Inventor's Signature:	Ping Wei	Date:	
Inventor's Signature:	-	Date:	
Inventor's Signature.		Date:	
	Henrik S. Olsen		
Inventor's Signature:	Kevin P. Baker	Date:	
Inventor's Signature:	Reinhard Ebner	Date:	
Inventor's Signanue:	George A. Komutsoulis	Date:	
Inventor's Signature:		Daie:	
·	Craig A. Rosen		
Inventor's Signature.	Steven M. Ruben	Date: _	
Inventor's Signature:	Roxanne D. Duan	Date: _	
Inventor's Signature:	$\Omega \Lambda =$	Date: _	2/25/02
Inventor's Signature:	Kimberly A. Fl. rence	Date: _	

Inventor's Signature		Date	
	Paul A. Moore		
Inventor's Signature:	·	D2ke:	
	Charles E. Birse		
Inventor's Signature:		D	
	Jian Ni	Date:	
Inventor's Signature:			
mvenor s signature	Daniel R. Soppet	Date:	
Inventor's Signature:		Date	
- 	Vanggu Shi	Date	